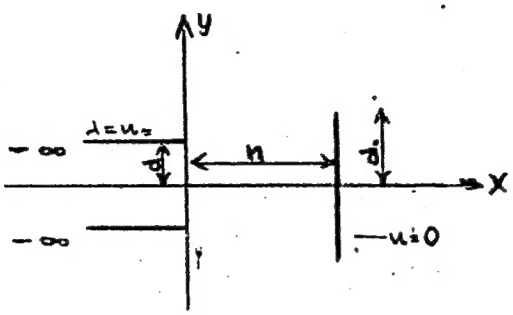
An analytical solution of a plane- ... S/196/62/000/024/004/014
E194/E155

Figure



Card 3/3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

PENCHEV, P.; TASHEVA, B.

Stationary electric fields of idealized supporting indoor insulators. Godishnik khim tekh 9 no. 1:283-299 '62[publ.'63].

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

TASHEVA, B.Yo., inzh.

Investigation of a high-voltage insulator placed in an electrolytic tub under a downfall of rain. Elektrichestvo no.3:69-76 Mr '62. (MIRA 15:2)

1. Khimiko-tekhnologicheskiy institut, Sofiya.
(Electric insulators and insulation)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

LISOVSKIY, V.I., prof.; TASHEVSKAYA, V.M.

Mathematical model of the process of metal reduction by carbonaceous fuel from liquid slag. Izv. vys. ucheb. zav.; tsvet. met. 8 no.4:152-161 '65. (MIRA 18:9)

1. Kafedra avtomatizatsii proizvodstva redkikh i radioaktivnykh metallov Moskovskogo instituta stali i splavov.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

IMARALIYEV, A.; TERMETCHIKOV, M.K.; AMANOV, A.; TASHIBAYEV, B.

Method of determining the detonation speed of caps and borehole charges using a MPO-2 oscillograph with eight loops. Izv.AN Kir.SSR.Ser.est.i tekh.nauk 2 no.2:91-97 '60. (MIRA 14:10)

(Blasting) (Oscillograph)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

TASHINA, L. S.

21636 TASHINA, L. S. K biologii pchel osmiy (Osmia papaveris Latr. u Osmia divem moes) Izvestiya Akad. nauk Kazakh. SSR, No. 63, Seriya zool., vyp. 8, 1948, s. 196-202. - Rezyume na Kazakh. yaz.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

VOLKOVA, O.Yu., prof.; TASHINSKAYA, A.D., kand.med.nauk; KAGAN, M.S., kand. khimicheskikh nauk

Effect of various concentrations of radon on the peripheral blood in animals. Uch.zap.Pyat.gos.nauch.-issl.bal'n.inst. 3:3-15 '60. (MIRA 15:10)

(RADON--THERAPEUTIC USE) (BLOOD--EXAMINATION)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

VOLKOVA, O.Yu.; TASHINSKAYA, A.D.; KAGAN, M.S.

Action of radon radiations and the products of its decomposition on hematopoietic processes. Med.rad. no.9:54-63 '61.
(MIRA 15:1)

1. Iz mikrobiologicheskoy laboratorii Gosudarstvennogo bal'neologicheskogo instituta na Kavkazskikh Mineral'nykh Vodakh.
(RADON--PHYSIOLOGICAL EFFECT)
(HEMOPOIETIC SYSTEM--RADIOGRAPHY)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

TASHIYLEV, A.O.

Ecologic and faunistic study of birds of the Murgab Valley. Trudy Inst. zool. i paraz. AN Turk. SSR 2:5-63 '58. (MIRA 17:2)

MOROZ, S.I., inzh. (Donetsk); TASHKEVICH, Yu.A., tekhnik (Donetsk)

Development of the control system of corridor-type clarifiers. Vod. i san. tekh. no.8:35 Ag '65. (MIRA 18:12)

S/166/60/000/02/07/013

AUTHORS: Arifov, U.A., Member of the AS Uz SSR, and Tashkhanova, D.A.

TITLE: On the Energy Spectrum and the Composition of the Secondary Emission of Negative Particles From Na-Films to Ta During a Bombardment With Ar-Ions

PERIODICAL: Izvestiya Akademii nauk Uzbekskoy SSR, Seriya fiziko-matematicheskikh nauk, 1960, No.2, pp. 61-67

TEXT: With the aid of a complicated arrangement of experiments the secondary emission of electrons was investigated which appears during the bombardment by argon ions of an Na-film being on a tantalum base. The obtained volt-ampere-characteristics of the considered emission show a significant separation into particles with a soft and a hard energetic spectrum. The emission of particles with a soft spectrum is observed for all states of the bombarded surface. The emission with a hard spectrum is missing for a free Ta-surface and appears and increases with the density of the Na-film; hereby a certain maximal value is reached whereafter there follows a decrease up to a final value for a further increase of the density of the film. Herefrom it is concluded that the particles with a hard energy spectrum negative ions of the absorbed gases (Ref.6). At the other hand it is

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

On the Energy Spectrum and the Composition of the Secondary Emission of Negative Particles From Na-Films to Ta During a Bombardment With Ar-Ions S/166/60/000/02/07/013

stated that the emission with a soft spectrum in essential is at the expense of the potential energy of the bombarded ions. Herewith it is proved that the observed secondary emission consists of two separated phenomena.

There are 5 figures and 11 references: 9 Soviet, 1 German and 1 American.

ASSOCIATION: Institut yadernoy fiziki AN Uz SSR (Institute of Nuclear Physics AS Uz SSR)

SUBMITTED: January 25, 1960

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

82161
S/048/60/024/06/06/017
B019/B067

9.3120

AUTHORS: Arifov, U. A., Tashkhanova, D. A.

TITLE: Secondary Electron Emission in the Bombardment of Na-Films with Ar-Ions

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 6, pp. 664-667

TEXT: This is the reproduction of a lecture delivered at the 9th All-Union Conference on Cathode Electronics from October 21 to 28, 1959 in Moscow. The results of preparative experiments are presented here. The experimental arrangement was the same as that used and described in Refs. 3, 8. Metallic sodium sputtered upon a tantalum base layer was used as target. The results show that the voltampere characteristics obtained in bombarding the Na-film with argon ions considerably differ from similar results obtained in the bombardment with alkali ions. Fig. 1 shows voltampere characteristics of secondary electron emission in the bombardment of a Na-film on a Ta-base layer with 900-ev Ar-ions. The authors mention the occurrence of two groups of secondary electrons, one with a soft-

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Secondary Electron Emission in the Bombardment of Na-Films With Ar-Ions

S/048/60/024/06/06/017
B019/B067

energy spectrum, and one with a hard-energy spectrum. Fig. 2 shows a series of oscillograms of the voltampere characteristics obtained with 720-ev Ar-ions. Fig. 3 graphically shows the dependence of the secondary emission coefficients of the two groups on the thickness of the Na-film. For both groups a distinct maximum occurs, and it is concluded from the course of these two curves that in the group with hard-energy spectrum not only secondary electrons but also negative ions of adsorbed gases occur. Furthermore, the authors conclude that field-induced electron emission takes place in the bombardment with Ar-ions for all thicknesses of the Na-film on a Ta-base layer. This assumption was checked by separating the electrons from the negative ions by means of a magnetic field, and confirmed by the oscillograms shown in Fig. 4. There are 4 figures and 11 references: 9 Soviet, 1 American, and 1 German.

ASSOCIATION: Institut yadernoy fiziki Akademii nauk UzSSR
(Institute of Nuclear Physics of the Academy of Sciences, Uzbekskaya SSR)

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

[redacted], [redacted]ov, K.K. and [redacted]ifov, V.A.

[redacted]: Radiotekhnika i elektronika, v. 3 [redacted]

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

quantitative determination of
magnesium as $NaMgF_3$

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

APPROVED FOR RELEASE: Thursday, September 26, 2002

USSR/ Physical Chemistry - Thermodynamics. Thermochemistry. B-8
Equilibrium. Physicochemical Analysis. Phase Transitions.

Abs Jour : Referat Zhur - Khimiya, No 3, 1957, 7499

Author : Talipov, Sh.T., Sultanov, A.S., Tashkhodzhayev, A.T. and Yusupova, N.K.

Inst : Academy of Sciences Uzbek SSr

Title : On the Solubility of Calcium Sulfate in Aqueous Solutions of Glycerine.

Orig Pub : Dokl. ANUzSSR, 1956, No 1, 25-27 (Uzbek summary)

Abstract : The solubility of $CaSO_4$ in aqueous solutions of glycerine (I) at 20, 30, and 40^0 has been determined for concentrations of I from 5 to 80 percent. The solubility of $CaSO_4$ in aqueous solutions of I decreases with increasing temperature and increasing concentration of I. As the concentration of I is increased, the pH of the solution is lowered from 5.85 (at 5 percent) to 2.92 (at 80 percent).

Card 1/1

TASHKINOV, G.

Gas and Oil Engines

Determining the moment of fuel injection in engine KD-35. Tekhsov. NTS, 13, No. 27, 1952.

Monthly List of Russian Accessions, Library of Congress October 1952 UNCLASSIFIED

TASHKINOV, G. A. (Aspirant)

"An Investigation of the Deterioration of the Piston Couples in the Fuel Pump of the DT-54 Tractor." Cand Tech Sci, Joint Scientific Council of the All-Union Sci-Res Inst for the Mechanization of Agriculture (VIM); All-Union Sci-Res Inst for the Electrification of Agriculture (VIESKh), 28 Dec 54. (VM, 17 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: SUM No. 556, 24 Jun 55

TASHKINOV, Grigoriy Aleksandrovich, kand.tekhn.nauk; STRILEVA, G.F., red.; SOKOLOVA, T.I., tekhn.red.

[Operation of the diesel fuel-equipment] Ekspluatatsiia dizel'noi toplivnoi apparatury. Irkutsk, Irkutskoe knizhnoe izd-vo, 1958. 59 p. (MIRA 13:1)
(Diesel engines)

CIA-RDP86-00513R001755020019-1"

TASHKINOV, G. A.: Cand Master Tech Sci (diss) -- "Investigation of the thermal-engineering properties of external walls made of cementless blocks with lime and lime-mixture binder". Moscow, 1958. 16 pp (Moscow Order of Lenin and Order of Labor Red Banner Inst of Railroad Transport Engineers im I. V. Stalin), 150 copies

(KL, No 1, 1959, 121)

TASHKINOV, G.A., inzh.

Heat-insulating properties of apartment houses with walls made of large silicate blocks. Trudy MIIT no.118:98-110 '58. (MIRA 12:2)

(Walls) (Insulation (Heat)) (Silicates)

TASHKINOV, G.A., inzh.

Heat-insulating properties of walls made of cementless vibration-molded stones with a base of vibration-milled material. Trudy MIIT no.118:111-118 '58. (MIRA 12:2)
(Walls) (Insulation (Heat)) (Silicates)

[ASHKINOV, G.A.]

25(2);18(7) PHASE I BOOK EXPLOITATION SOV/2496

Akademiya nauk SSSR. Institut mashinovedeniya

Treniye i iznos v mashinakh; sbornik 13 (Friction and Wear in Machinery; Collection 13) Moscow, Izd-vo AN SSSR, 1959. 266 p. Errata slip inserted. 3,000 copies printed.

Resp. Ed.: M.M. Khrushchov, Doctor of Technical Sciences, Professor; Ed. of Publishing House: M.A. Babichev; Tech. Ed.: T.V. Polyakova; Editorial Board: Ye.M. Gut'yar, Doctor of Technical Sciences, Professor; A.K. D'yachkov, Doctor of Technical Sciences, Professor; I.V. Kragel'skiy, Doctor of Technical Sciences, Professor, A.D. Kuritsyna, Candidate of Technical Sciences; L.Yu. Pruzhanskiy, Candidate of Technical Sciences; and M.M. Khrushchov, Doctor of Technical Sciences, Professor.

PURPOSE: The collection is intended for engineers, scientific research workers, and students working in the field of friction and wear in machinery.

Card 1/7

COVERAGE: This collection of articles consists of excerpts from dissertations. Included are excerpts from the dissertations of Aspirants A.A. Soroko-Novitskiy, V.N. Marochkin, and L.B. Khrisanova of the Institut mashinovedeniya AN SSSR (Institute of Machine Construction, Academy of Sciences, USSR). The articles deal with the wear resistance of carbon steel, wear of plungers in fuel pumps, wear from faulty lubrication, friction and wear from the lubrication of sliding contact bearings with sulfuric acid, plastic deformation of tapered surfaces, oil-film generation in 120 -degree bearings with fluid friction, and pressures in oil film. Extensive bibliographies on friction, wear, and lubrication, compiled from Soviet and non-Soviet publications in 1955 [Supplement] and 1956, are presented. References follow several of the articles.

TABLE OF CONTENTS:

Friction (Cont.)

The influence of the structure of heat-treated carbon steels on wear resistance during friction from fixed abrasives is discussed. The author concludes that the most wear-resistant carbon steel is that with a martensite structure. He further concludes that the presence of residual austenite in hyper-eutectoid steel lowers the wear resistance.

2. Val'dma, L.E. Wear of Metals With a Nonrenewable Abrasive Interlayer 19

The author presents a description and schematic diagram of a special testing apparatus for investigating the friction wear of a pair of plane metal disks separated by a layer of oil containing abrasive particles. The dependence of wear and the coefficient of friction on the hardness of the disks was established and shown in diagrams.

3. Tashkinov, G.A. Investigation of the Wear of Plungers and Liners in the Fuel Pump of a Diesel Engine 34

The author investigates plunger wear caused by the action of abrasive particles in thefuel. To retard this type of wear, he

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

recommends chromium coating of plungers.

4. Yelin, L.V. (Deceased). Mutual Penetration of Surface Layers of Metals as One of the Causes of Wear From Faulty Lubrication 48

The change in shape of contact surfaces of two bodies due to mutual displacement under loading is experimentally investigated. Samples used in the experiment had different machanical properties. On these experiments the author bases his theory of the wear of hard bodies due to mutual penetration under pressure.

5. Lyalin, Ye.V. Investigation of Friction and Wear of Sliding Contact Bearings Lubricated With Sulfuric Acid 59

Experimental data for the design of machinery with rotary bearings lubricated with a lubricant containing 92 percent sulfuric acid are presented. The experimental installation is described. Friction moment, coefficients of friction and wear, and the rate of wear for bushings and shafts are determined. A simplified equation for the friction moment is derived.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

Friction (Cont.)

8. Khrisanova, L.B. Measurement of Pressures in the Oil Film of a Sliding Contact Bearing 189
Measurements were made with a semiconductor transducer. The work was done under the supervision of Professor A.K. Dyachkov, who in 1952 originated the concept of using semiconductors for such measurements.

9. Khrisanova, L.B. Analytical and Experimental Investigation of Pressure in the Oil Film of a Bearing With Crossed Axes of Shaft and Bushing 197
The influence of the mutual inclination of the axes of the shaft and bushing on the capacity of the bearing is discussed. The pressures were measured by the method described in the preceding paper. A general method for calculating the capacity of bearings for various film thicknesses and arbitrary boundary shapes of the pressure zone is presented.

SOV/2496

Friction (Cont.)

AVAILABLE: Library of Congress

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Card 7/7

TASHKINOV, G.A.

Investigating the wear of plunger pairs in diesel-engine fuel pumps. Tren.i izn.mash. no.13:34-47 '59. (MIRA 12:10)
(Diesel engines--Testing)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

TASHKINOV, G.A., kand.tekhn.nauk

Unheated cone-shaped interior gutters for roofs of rolling mills. (MIRA 13:10)
Prom. stroi. 38 no.11:53-54 '60.
(Gutters) (Rolling-mills)

TASHKINOV, G.A., dotsent, kand.tekhn.nauk

Heat conductivity and thermal diffusivity in heavy cementless materials. Trudy BIIZHT No.10:3-24 '61. (MIRA 16:9)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

TASHKINOV, G., kand. tekhn. nauk

Reviews. Zhil. stroi. no.10:31-32 '65. (MIRA 18:11)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

GAGARSKIY, E.; TASHKINOV, V.

News of Soviet engineering. NTO 3 no.12:24-25 D '61. (MIRA 15:1)
(Technological innovations)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

SIMONOV, Aleksandr Sergeyevich, inzh.; TASHKINOV, Vasiliy Aleksandrovich, inzh.; SAVEL'YEV, Ye.Ya., red. izd-va; UVAROVA, A.F., tekhn.red.

[Single-beam bridge cranes] Kran-balki; krany mostovye odnobalochnye. Moskva, Mashgiz, 1963. 199 p. (MIRA 16:7)
(Cranes, derricks, etc.)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

TASHKINOV, V.A., inzh.

New movable cantilever crane with 3 ton capacity. Vest. mashinostr. 43 no.10:44-45 O '63. (MIRA 16:11)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

ACCESSION NR: AP4015107 S/0122/64/000/002/0029/0030

AUTHOR: Tashkinov, V. A. (Engineer)

TITLE: Floating crane of 250-ton capacity

SOURCE: Vestnik mashinostroyeniya, 44 no. 2, 1964, 29-30

TOPIC TAGS: floating crane, artificial island, drilling derrick, boom tower, winch, shock absorber, ball bearing

ABSTRACT: The design of a unique crane-derrick for off-shore petroleum production has been developed. It is intended for loading portions of artificial steel or reinforced concrete islands (250 tons each) onto a ship. It can also load a completely equipped drilling derrick. The crane will be used to construct artificial islands up to a depth of 70m, to erect a drilling derrick, to dismantle these structures, and for other purposes. Its boom is 70 m long and is supported by a 42-m tower which revolves on a 2.4-m ball bearing weighing 8 tons. The lifting mechanism includes two auxiliary hoists, one of 140-ton and one of 10-ton capacity. The crane can operate in waves up to the 5th magnitude. It is protected by disk-shaped shock absorbers against excessive rocking and damage caused by swinging loads. It is supplied with a communication system and with overload protectors.

Card 1/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

ACCESSION NR: AP4015107

Orig. art. has: 2 figures.

ASSOCIATION: TsKB VNIIPTMASH (TsKB VNIIPTMASH); TsKB gor'kovskikh sudostroiteley, institut "Proyektstal'konstruktsiya"(TsKB of Gor'kiy Shipbuilders, Institute "Proyektstal'konstruktsiya"); Leningradskiy zavod PTO im. Kirova (Leningrad PTO Plant)

SUBMITTED:	00	DATE ACQ:	12Mar64	ENCL:	00
SUB CODE:	SD	NO REF SOV:	000	OTHER:	000

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

SAVINKOVA, Ye.I.; LUR'I, I.S.; YANKOVSKIY, V.R.; Prinimali uchastiye: TASHKINOVA, I.V.; ANDREYEVA, R.A.; SAPEVINA, T.G.; PLOKHOTNIKOVA, S.P.

Graphical calculation of crystallization of potassium chloride according to the stages of a vacuum crystallizer. Zhur. prikl. khim. 36 no.11:2544-2547 N '63. (MIRA 17:1)

1. Ural'skiy politekhnicheskiy institut imeni Kirova i Bereznikovskiy kaliynyy kombinat.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

TASHKINOVA, Z.N.

Complexometric determination of aluminum. Apt. delo 12 no.2: 77-79 Mr-Ap '63. (MIRA 17:7)

1. Kazanskiy khimiko-farmatsevticheskiy zavod.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

TASHKO, G.

"Our people's power created favorable conditions for scientific work in agriculture." p. 19

PER BUJQESINE SOCIALISTE. Tirane, Albania, Vol. 13, No. 11, November, 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 9, No. 2, February, 1960. Uncl.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

TASHKOV, B.

TASHKOV, B. Regarding the quality of linseed for sowing and application of Bulgarian State Standard 718-51. p. 37. Vol. 5, no. 11, Nov. 1955. RATSIONALIZATSIA. Sofiia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol 6, No. 4--April 1957

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

TASHKOV, G., inzh.; SHLOSER, B., inzh.; KHLEBAROV, V., inzh.

A universal device for the cold-press overlapping welding.
Mashinostroenie 11 no.11:36-37 N '62.

1. NIIMM.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

COUNTRY : Bulgaria
CATEGORY :

ABS. JOUR. : RZKhim., No. 16 1959, No. 58460

AUTH. : Stoev, G. and Tashkov, Kh.
INST. : Not given
TITLE : The Utilization of the Sulfur in Brown Coals at the 'Maritsa-East' Steam-Heat and Electric Power Station
ORIG. PUB. : Tekhnika (Bulgaria), 7, No 9, 16-18 (1958)

ABSTRACT : The authors discuss design studies made by the Soviet organization 'Giprogazoochistka' in connection with the utilization of the S in the flue gases of the steam-heat and electric power station which is in the process of completion and of the connected briquetting plant and nitrogenous fertilizer plant.

G. Bonvech

CARD: 1/1

TASHKOV, T.

Manganic high siliceous flux from local raw material for automatic and semiautomatic welding of low carbon steel. p. 21

PEZHKA PROMISHLENOST. (Ministerstvo na teznkata promishlenost) Sofiia, Bulgaria, Vol. 8, No. 7, July 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 12, December 1959
Uncl.

TASHKOV, Tashko, inzh.; SHLOSER, Boris, inzh.; KHLEBAROV, Vladimir, inzh.

Reconstruction of PSH-5Y semiautomatic device for welding in medium of carbon dioxide. Tekhnika Bulg 10 no.8:12-16 '61.

(Welding) (Carbon dioxide)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

TASHKOV, T., inzh.

Cold pressure welding of silver contactors to copper and brass.
Mashinostroene 10 no.10:15-19 O '61.

TASHKOV, Tashko, inzh.

Ways of increasing the kilogram-hour productivity in manual electric arc welding. Tekhnika Bulg 11 no.5:182-184 '62.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

TASHKOV,T., inzh; KHLEBAROV, V., inzh.

Correcting faulty steel castings by welding. Mashinostroene 13 no.1:18-23 Ja'64

1. TsNIITMASH

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

TASHKOV, Tashko, inzh.

Ways for increasing the productivity of hand electric-arc welding by increasing the depth of penetration. Tekhnika Bulg 13 no.1:20-22, 25 '64.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

TASHKOV, Tashko, inzh.; SHLOSER, Boris, inzh.; KHLEBAROV, Vladimir, inzh.; BALKANDZHIEV, Rosen, inzh.

A new semiautomatic device for welding in the carbon dioxide protective gas medium. Tekhnika Bulg 13 no.4:19-22 '64

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

BALKANDZHIEV, Rosen, inzh.; TASHKOV, Tashko, inzh.

Some notes on the Bulgarian State Standard 449-61: Transformers for Electric-Arc Welding with a Single Outlet. Ratsionalizatsiia 13 no.4:29-30 '63.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

ACC NR: AM5027749 Monograph UR/ 20

Armand, N. A.; Vvedenskiy, B. A.; Gusyatinskiy, I. A.; Igoshev, I.P.; Kazakov, L. YA.; Kalinin, A. I.; Nazarova, L. G.; Nemirovskiy, A. S.; Prosin, A.V.; Ryskin, E. YA.; Sokolov, A. V.; Tarasov, V.A.; Tashkov, P. S.; Tikhomirov, YU. A.; Troitskiy, V. N. Fedorova, L. V.; Chernyy, F. B.; Shabel'nikov, A. V.; Shirey, R. A.; Shifrin, YA. S.; Shur, A. A.;;YAkovlev, O. I.; Kolosov, M. A.; Levshin, I. P.; Lomakin, A. M.

Upper tropospheric propagation of ultrashort radio waves (Dal'neye troposfernoye rasprostraneniye ul'trakorotkikh radiovoln) Moscow, Izd-vo "Sovetskoye radio", 1965. 414 p. illus., biblio. 4000 copies printed.

TOPIC TAGS: radio wave propagation, tropospheric radio wave, radio communication, space communication, tropospheric scatter communication, signal processing, signal distortion, field theory

PURPOSE AND COVERAGE: This monograph is intended for specialists working in the field of radiowave propagation, designers of long-distance radio communication systems, and teachers and students of the advanced courses in schools of higher technical education. The monograph contains, for the most part, heretofore unpublished results of Soviet experimental and theoretical investigations in the field of long-distance tropospheric ultrashortwave propagation.

UDC: 621.371.24

Card 1/10

ACC NR: AM5027749

Problems of investigating the troposphere by means of refractometers, the mean level of signals, meteorological conditions and topography, fluctuation of arrival angles and distortions of antenna directivity patterns, losses in antenna gain, and quick and slow fadings of signal levels are discussed. The statistical characteristics of the signals at diversity reception in time, space, frequency and angle as well as the distortion of signals in the communication systems are also investigated. The long-distance propagat- theory is analyzed, and the engineering method of calculating field intensity at long-distance tropospheric propagation is given. At present, there is no theory of Long-Distance Tropospheric Propagation which can be applied effectively enough in practice. Thus, in the investigation of that propagation, considerable attention has to be paid to experiments. The special characteristics of geographical conditions of the territory involved should be taken into consideration during the analysis of experimental data and in their practical application because the conditions of propagation in arctic and tropical climates differ from those existing over seas and continents. A considerable part of the monograph deals with the investigations of long-distance tropospheric propagation carried out over dry land routes, 800 km long, in the central part of the USSR under the general supervision of B. A. Vvedenskiy and A. G. Arenberg (up to 1957). V. I. Siforov investigated problems con-

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ACC NR: AM5027749

nected with distortions and fluctuations of signals. References follow each chapter.

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AM5027149

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

KRASNOBAEVA, N.; TASHKOVA, A.

A rapid method of spectral determination of arsenic, cadmium, bismuth, antimony, lead, and tin in the products of copper-smelting production. Doklady BAN 17 no.10:917-920 '64.

1. Submitted May 26, 1964.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

LIL'CHITSKIY, E.I.; TASHLITSKIY, A.I.; FISHBERG, A.Ya.

New machine for expanding tubes. Mashinostroenie no.1:113 Ja-F '63. (MIRA 16:7)

(Machine tools)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1

TASHLITSKIY, N. I.

Dissertation: "Influence of the Heat Conductivity and Mechanical Properties of Steels on Their Machinabity At Turning With High-Speed Cutter."

23/1/50

Central Sci Res Inst of Technology and Machine Building "TSNIITMASH"

SO Vecheryaya Moskva
Sum 71

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

TASHLITSKIY, N. I.

"Influence of the Heat Conductivity and Mechanical Properties of Steels on Their Machinability in Turning With High-Speed Cutters." Thesis for degree of Cand Technical Sci. Sub. 23 Jan 50, Central Sci Res Inst of Technology and Machine Building

[redacted] Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva. Jan-Dec. 1950.

TASHLITSKIY N.I

... of carbon dioxide for increasing the life of cutting ... Mashino-...

... from the ... and CO_2 impinging ... the back of the ... The ... the displacement ... from the ...

TASHLITSKIY, N.I.

AID P - 4486

Subject : USSR/Engineering

Card 1/1 Pub. 128 - 13/29

Authors : Tashlitskiy, N. I., Kand. Tech. Sci., and R. G. Makhkamov, Engineer

Title : Buffing and polishing with felt discs

Periodical : Vest. mash., #4, p. 53-57, Ap 1956

Abstract : The fine buffing of steel surfaces with felt discs is examined. Best results have been obtained when the felt was greased with a lubricant consisting of mineral oil thickened with calcium soap. Fine lines observed on some polished steel surfaces are considered to be caused by a thin oxide film. Photos, charts, 2 references, 1952 and 1953.

Institution : None

Submitted : No date

CIA-RDP86-00513R001755020019-1"

TASHLITSKIY, N.I.

PHASE I BOOK EXPLOITATION SOV/4804

Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya

Nekotoryye voprosy tekhnologii tyazhelogo mashinostroyeniya, chast' 2: Obrabotka metallov rezaniyem i kontrol' kachestva detaley (Some Problems in the Manufacturing Processes of Heavy Machinery, Pt. 2: Metal Cutting and Quality Control of Parts) Moscow, Mashgiz, 1960. 173 p. (Series: Its: [Trudy] kn. 99) 2,500 copies printed.

Sponsoring Agencies: Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu; Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya.

Ed.: Ye.P. Unksov, Doctor of Technical Sciences, Professor; Managing Ed. for Literature on Heavy Machine Building: S.Ya. Golovin, Engineer; Ed. of Publishing House: G.N. Soboleva; Tech. Ed.: Z.I. Chernova.

PURPOSE: This book is intended for technical personnel in heavy-machinery plants and for scientific workers in factory laboratories and research institutes.

~~Card 1/4~~

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

COVERAGE: The book contains a summary of work conducted by the personnel of TsNIITMASh in the field of mechanical machining and quality control of parts. Included is a discussion on the correct combination of depth, feed, and speed in cutting with maximum capacity of the machine tool. Also considered are the development of machining methods in rough and semifinishing production, and the application of ultrasonic devices for flaw detection and measurement of wall thickness. No personalities are mentioned. References follow some of the chapters.

TABLE OF CONTENTS:

TASHLITSKIY, N.I.

Welding tempered high-speed steel plates to cutting tools. Stan.i instr. 31 no.4:33-34 Ap '60. (MIRA 13:6)
(Metal-cutting tools)

25238 S/122/60/000/002/008/018
A161/A130

1.1100

AUTHOR: Tashlitskiy, N. I., Candidate of Technical Sciences

TITLE: The primary energy source of natural oscillation excitation in metal cutting

PERIODICAL: Vestnik mashinostroyeniya, 40 no. 2, 1960, 45 - 50

TEXT: It had been supposed in papers by several authors that ... source giving the start for oscillation with natural frequency in ... the difference of cutting forces during the incision and repelling ... tool in the vibration. It had also been observed in experiments ... force was lower during the penetration than during the repelling, ... supposed that the higher hardness of metal in repelling (after ... hardened by cutting) is the cause. But this explanation is not ... ally the cutting effort in turning softer "10" and "20" steel ex... in burning the harder "30" and "40" steel. A new explanation is ... present article after an experimental investigation carried out ... jointly with Candidate of Technical Sciences L. K. Kuchma: - the ... cutting effort and of plastic deformations, which has been prove...

Card 1/4

The primary energy source of natural oscillation...

layer of metal from an eccentrical blank. The phenomenon is di... phical analysis of the process and calculations. The momentary ... depth a on eccentrically installed blanks being turned are fou... O_1NO:

$$(a + r)^2 = R^2 + e^2 - 2Re\cos\psi_1,$$

where, consequently,

$$a = \sqrt{R^2 + e^2 - 2Re\cos\psi_1} - r$$

In view of the eccentricity e being many times smaller than the ... R,

$$e \ll R,$$

and it is assumed in the first approximation that

$$\psi_1 \approx \psi$$

Then a is approximately determined using the approximate equation (...) ... for- mula (3):

$$a \approx R - r - e\cos\psi.$$

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The primary energy source of natural oscillation...

Then, in view of

$$R - r = a_{min} + e, \quad (6)$$

a is obtained by the formula (5):

$$a = a_{min} + e(1 - \cos\psi), \quad (7)$$

or

$$a = a_{min} + 2e \sin^2\frac{\psi}{2} \quad (7a).$$

Comparing the formula (7a) with the formula (1b) derived in consideration of the sinusoidal surface elements

$$a = a_{min} + 2A \sin^2\frac{\psi}{2}, \quad (1b)$$

it is stated that the cutting depth by cutters with auxiliary cutting edge (cutting inverse chip) or by spade-shaped cutters must practically vary in compliance with the same law as in the primary excitation of natural oscillations. Cutting efforts were measured with a low-inertia electric ДТУ-1500 (DTU-1500) dynamometer of TsNIITMASh design and recorded with a МПО-2 (MPO-2) film oscillograph. The temperature of the cutter and the workpiece was recorded at the same time. It was stated

The primary energy source of natural oscillation...

in cutting eccentrically mounted blanks as well as in natural oscillations that the cutting effort continued to reduce during the beginning increase of the cutting depth (near the minimum), and to increase in beginning cutting depth decrease (near the maximum). The cutting temperature remained constant when the cutting depth changed between 0.3 and 1.5 mm, and it is obvious that the temperature had no time to change. The shrinking of the chip was measured using marks made with heat-proof pencils, and it was stated that the chip length always shrank less when the cutting depth was higher. This confirmed the other data indicating that the cutting effort is always lower at a larger cutting depth. A lag of the contact width between chip and cutter at a varying cutting depth was also stated. In general, the data obtained in all experiments match the data obtained in investigations of natural oscillations in cutting, and the suggested theories on the role of the lagging variations in the braked zone, contact width, chip shrinking and cutting effort. There are 8 figures and 7 Soviet-bloc references.

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S/121/60/000/04/03/008

AUTHOR: Tashlitskiy, N.I.

TITLE: Welding Hardened High-Speed Steel Bits to Tools

PERIODICAL: Stanki i Instrument, 1960, No 4, pp 33 - 34

TEXT: The author points out that for the design of large-size tools it is necessary to know the direction and magnitude of stresses acting on the cutting bit during the cutting process. Figure 1 shows a diagram of the forces acting on the cutting bit during restricted cutting. The stress values P_n, P_1 and the value of the angle of action ψ are calculated from the magnitude of P_x, P_y and P_z, which are experimentally determined by measuring the cutting stresses with the aid of three-component lathe dynamometers. Figures 2 - 4 show the functions of the cutting stresses P_n, P_1 and P_z and also the angle of action ψ, depending on the cutting speed during the machining of 50 grade steel. From these functions, experimentally obtained at the TsNIITMASh (Central Scientific Research Institute of Heavy Machinery) follows that the following correlations exist for the rough-turning of annealed and normalized steel grades with a thickness of cut of a < 2.1 mm/rev: $P_1 < 0.1\ P_z$; $P_n < 0.5\ P_z$; $\psi < 10^\circ$. With some corrections these functions may also be applied for high-speed

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Welding Hardened High-Speed Steel Bits to Tools S/121/60/000/04/03/008

cutting tools. The author states the results of variations of the front angle and the angle of action, a diagram of which is shown in Figure 5. Based on the assumption that the friction force, resulting from the stress effect P_z, may be bigger than the stress acting along the main cutting edge, several tool bits were manufactured, the cutting plates of which were fastened only by two rivets of 4 mm in diameter. The tests carried out with these tool bits confirmed the possibility of electric arc welding of previously heat-treated plates of the high-speed steel grades P9 and P18. Figure 6 shows a specimen of a test lot of tools manufactured in order to check the reliability of electric arc-welded hardened tool bits. Operation tests carried out on a planer in the mechanical assembly shop of the TsNIITMASh experimental plant in the course of two years showed that the microscopic cracks which are formed during the welding of heat-treated high-speed steel bits are not dangerous. Other tests with tools of 60 x 75 mm cross-section were made on the planer of the steam turbine shop of the Khar'kov Turbine Plant im. Kirov (KhTZ). The author describes the technical conditions of these tests and states that the test results proved the great hardness and reliable fixing of previously hardened high-speed steel bits. After long-time testing these tools are now in operation at the KhTZ.
There are: 3 sketches, 3 graphs and 2 Soviet references.

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TASHLITSKIY, N.I.

Large face-milling heads. Stan.i instr. 32 no.7:31-32 Jl '61. (MIRA 14:6)

(Milling machines)

TASHLITSKIY, N.I.; SHKLOVSKIY, M.M.

New design of large end-milling cutters. Stan.i instr. 34 no.4: 36 Ap '63. (MIRA 16:3)

(Metal-cutting tools)

TASHLITSKIY, N.I.

Device for Rockwell test of large parts. Stan. i instr. 34 no.8:33 Ag '63. (MIRA 16:10)

JD/HW/FWT
63/000/004/006/006

AUTHOR: Tashlitskiy, N. I.

TITLE: Approximate estimation of the rates of machining of steels and of chrome-nickel alloys according to their chemical compositions

PERIODICAL: Vestnik mashinostroyeniya, no. 4, 1963, 56-59

TEXT: Investigations showed that the approximate estimation of rates of cutting during machining of steels and alloys with ferrite, austenite, and [illegible] bases for the best machinability can be made according to their chemical composition. The intensity of the influence of the alloying elements on the rate of cutting was studied. Conditions and equations for the calculated rates of cutting are given. A comparison is made of the calculated and experimentally obtained values of the rates of cutting for steels and alloys (austenitic and chrome-nickel bases). The deviation in results was less than 20% for 17 steels containing up to 0.5% C, up to 2% Si, up to 9% Mn, 13-25% Cr, 7-80% Ni

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Approximate estimation of the rates...

up to 5% W, up to 2% V, up to 7% Mo, up to 2.5% Ti, up to 2% Nb, and up to 2% Co. For 15 steels (ferrite base) the deviation of the calculated and experimental values was less than 20%. The steels contained 0.1-1.14% C, 0.17-0.98% Si, 0.2-0.76% Mn, up to 11.9% Cr, up to 3.2% Ni, up to 4.08% W, up to 0.62% V, and up to 0.72% Mo. The proposed method for the calculation of the rates of cutting according to chemical composition and the acceptance of values of intensity of the influence of various chemical elements require further extensive verification and refinement. There are 3 tables and 4 non-English language references.

Card 2/2

RUSTAMOV, Anver Keyushevich, prof.; DEMENT'YEV, G.P., prof., otv.red.; TASHLIYEV, A.O., kand.biolog.nauk, otv.red.; AVAGIMOVA, S.G., red.izd-va; IBRAGIMOV, T., tekhred.

[Birds of Turkmenistan] Ptitsy Turkmenistana. Otvet.red. G.P. Dement'ev i A.O.Tashliev. Ashkhabad, Izd-vo Akad.nauk Turkmenskoi SSR. Vol.2. 1958. 252 p. (MIRA 13:2)

1. Direktor Instituta zoologii i parazitologii Akademii nauk TSSR (for Tashliyev).
(Turkmenistan--Passeriformes)

KOGAN, Sholom Iosifovich; KOSHKALDA, Viktor Andreyevich; TASHLIYEVA, A.O., kand. biolog. nauk, red.; AVAGIMOVA, S.G., red. izd-va; KASPAR'YANTS, L.T., tekhn. red.

[Lakes of the Turkmen S.S.R.; a popular scientific study] Ozera Turkmenskoi SSR; nauchno-populiarnyi ocherk. Pod red. A.O.Tashlieva. Ashkhabad, Izd-vo Akad. nauk Turkmenskoi SSR, 1960. 83 p. (MIRA 15:1)

(Turkmenistan--Lakes)

TASHLIYEV, A.O.; SUKHININ, A.N.; BEL'SKAYA, G.S.

Wintering of the red-throated pipit in Turkmenistan. Izv. AN Turk. SSR. Ser. biol. nauk no.2:82 '61. (MIRA 14:7)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR.
(ASHKHABAD REGION—PIPITS)

TASHLIYEV, A.O.

Composition and distribution of the avifauan of the first part of the Kara Kum Canal. Izv. AN Turk. SSR. Ser. biol. nauk no.6:68-75 '61. (MIRA 15:1)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR.
(KARA KUM CANAL REGION--BIRDS)

TASHLIYEV, A.O.

All-Union conference on breeding Ctenopharyngodon and Hypophthalmichthys in the reservoirs of the U. S. S. R. Izv. AN Turk. SSR. Ser. biol. nauk no.1:85-86 '62. (MIRA 15:3)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR. (CARP)

TASHLIYEV, A.O., kand. biol. nauk, otv. red.; ALIYEV, D.S., kand. biol. nauk, red.; VERIGIN, B.V., kand. biol. nauk, red.; KUZ'MENKO, A.I., red.izd-va; NASIBOVA, S.G., red.izd-va; IVONT'YEVA,G.A., tekhn.red.

[Papers of the All-Union Conference on the Commercial Introduction of the Plantivorous Fishes Ctenopharyngodon Idella and Hypophthalmichthys Molitrix in the Bodies of Water of the U.S.S.R.] Materialy Vsesoiuznogo soveshchaniia po rybokhoziaistvennomu osvoeniiu rastitel'noiadnykh ryb - belogo amura (Ctenopharyngodon idella) i tolstolobika (Hypophthalmichthys molitrix) - v vodoemakh SSSR. Ashkhabad, Izd-vo AN Turkm.SSR, 1963. 224 p. (MIRA 16:10)

1. Vsesoyuznoye soveshchaniye po rybokhozyaystvennomu osvoyeniyu rastitel'noyadnykh ryb v vodoyemakh SSSR. Ashkhabad, 1961.
(Ctenopharyngodon) (Hypophthalmychthys)
(Fish introduction)

TASHLIYEV, A.O.; KLYUSHKIN, Ye.A.

Achievements of zoological science in the service of national economy. Izv. AN Turk. SSR. Ser. biol. nauk no.3: 12-17 '63. (MIRA 17:1)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR.

TASHLIYEV, A.O.; KEKILOVA, A.F.

Feeding habits of some insectivorous birds in the Karakum Canal zone. Izv. AN Turk. SSR. Ser. biol. nauk no.5:68-73 '63. (MIRA 17:10)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR.

TASHLIYEV, A.O.; EMINOV, A.; SUKHININ, A.N.

New data on the occurrence of some birds in Turkmenia.
Izv. AN Turk. SSR. Ser. biol. nauk no.1:83-86 '64.
(MIRA 17:9)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR.

TASHLIYEV, A.O.; SUKHININ, A.N.; BEL'SKAYA, G.S.

Winter fauna of birds of lakes of the Kelifskiy Uzboy region. Izv. AN Turk. SSR. Ser. biol. nauk no.2:88-92 '64. (MIRA 17:6)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR.

TASHLIYEV, A.O.; KIRILOVA, A.F.

Feeding habits of some birds in the vicinity of Ashkhabad.
Izv. AN Turk. SSR. Ser. biol. nauk no.4:69-74 '64. (MIRA 17:11)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR.

TASHLIYEV, A.O.; KLYUSHIN, Ye.A.

Zoological research in Turkmenia during the last 40 years. Izv. AN Turk. SSR. Ser. biol. nauk no.5:39-45 '64. (MIRA 18:2)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001755020019-1"

SUKHININ, A.N.; TASHLIYEV, A.O.

Avifauna of Khauz-Khana Reservoir and its banks in fall. Izv. AN Turk. SSR. Ser. biol. nauk no.2:51-56 '65. (MIRA 18:5)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR.

TASHLIYEV, A.O.; KLYUSHKIN, Ye.A.

First State Conference of the Young Zoologists. Izv. AN Turk. SSR. Ser. biol. nauk no.3:93-94 '65. (MIRA 18:9)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR.

TASHLIYEV, A.O.; SUKHININ, A.N.; BEL'SKAYA, G.S.

Characteristics of the bird population in some districts of western Kopetdag. Izv.AN Turk.SSR.Ser.biol.nauk no.4:45-50 '65. (MIRA 18:9)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR.

TASHLYKOVA M. P.

PHASE I BOOK EXPLOITATION 355

Sagaradze, V. S., Candidate of Technical Sciences, Ed.

Iz opyta raboty zavodskoy metallograficheskoy laboratorii; [sbornik] (Experience of a Plant Metallographic Laboratory; Collection of Articles) Moscow, Mashgiz, 1957, 82 p. 2,000 copies printed.

Tech. Ed.: Yermakov, N. P.; Reviewer; Gol'tsman, D. I., Engineer

PURPOSE: This book is intended for engineers and technicians at machine-building plants (particularly in the heat-treatment shops), research institutes, and laboratories, as well as for students at higher technical schools.

COVERAGE: This is a collection of articles written by workers at the metallographic laboratory of the Ural'skiy vagonostroitel'nyy zavod (Urals Railroad-car Plant in Nizhniy Tagil, Sverdlovskaya Oblast'. It is stated that the investigations on which the articles are based have contributed to the establishment of more efficient methods of heat treatment. The first three articles are concerned with the question of carburizing parts

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made of 20Kh2N4A and 18KhNVA alloy steels. The articles describe the experience of the plant in this field and present the results of an investigation of the effect of various factors on the structure and properties of the case. For further coverage, authors, and references, see Table of Contents.

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